

Chapter 9 Plate Tectonics

Section 9.3 Theory of Plate Tectonics

(pages 261–268)

This section discusses plate tectonics, including lithospheric plates and types of plate boundaries.

Reading Strategy (page 261)

Comparing and Contrasting After you read, compare the three types of plate boundaries by completing the table. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

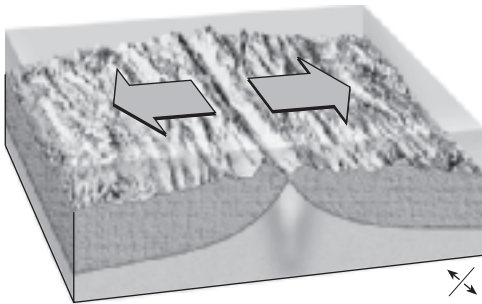
Boundary Type	Relative Plate Motion
convergent	a.
divergent	b. plates move apart
transform fault	c.

Earth's Moving Plates (pages 261–263)

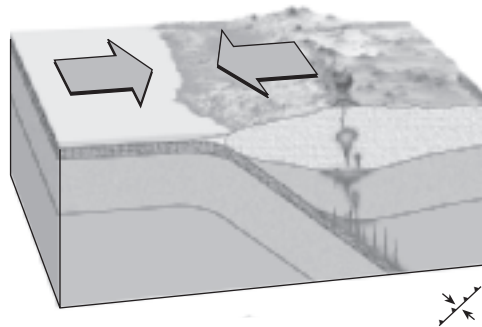
1.  Label each type of plate boundary shown in the figure.

Choose from the terms.

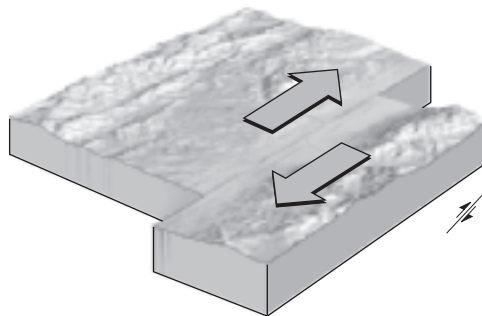
convergent	divergent	transform fault
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A. _____



B. _____



C. _____

Chapter 9 Plate Tectonics

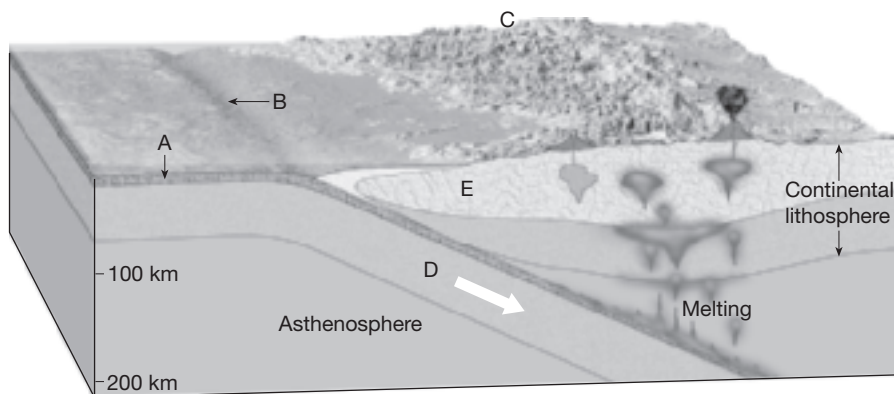
2. Is the following sentence true or false? The lithospheric plates move at about 5 km per year. _____

Divergent Boundaries (page 264)

3. Is the following sentence true or false? Along divergent boundaries, plates move apart. _____
4. Is the following sentence true or false? Divergent boundaries only occur on the ocean floor. _____

Convergent Boundaries (pages 265–267)

5. 🗑️ At convergent boundaries, plates _____ and interact.
6. Select the appropriate letter in the figure that identifies each of the following features.



- _____ Subducting oceanic lithosphere
- _____ Oceanic crust
- _____ Trench
- _____ Continental volcanic arc
- _____ Continental crust

7. Newly formed land consisting of an arc-shaped island chain is called a(n) _____.
8. Is the following sentence true or false? Mountains form as a result of a collision between two continental plates. _____

Transform Fault Boundaries (page 268)

9. 🗑️ Plates grind past each other without destroying the lithosphere at a _____ boundary.